- 1. Which instruction does unconditionally transfers the control of execution to a specified address?
- 2. Name some of the major architectures of the microprocessor and briefly explain how they differ.
- 3. The 8088/8086 microprocessor has been divided into a number of functional units. List them and explain the role each of them plays in the operation of the microprocessor.
- 4. Name all of the Pointer and Index registers and talk about the purpose each one of them serves.
- 5. How does the direction flag works?
- 6. Name three different Data Addressing Modes, giving an example for each.
- 7. State which of these instruction correct and which isn't, indicating why:

MOV CS, DS POP 0234H MOV AX, [1ARRAY] INC BH, 01H DEC {SI}

- 8. How does the Auxiliary Carry Flag and the Carry Flag differ from each other?
- 9. How many bytes does a Far Jump occupies on memory?
- 10. Is there a difference between the unconditional jump JS and the unconditional jump JL?
- 11. When do we benefit from the CALL instruction the most in the whole programming process?
- 12. List Four different Processor Control Instructions and briefly explain how they work.
- 13. The directive ( .startup ) is used at the beginning of a program. What is its purpose? And with what set of instructions can we substitute it?
- 14. How many pins does a 8088 microprocessor have?
- 15. Discuss the difference between INTR & NMI.
- 16. How many BUSES does a 8086 microprocessor have?
- 17. How many bus cycles does it take to perform the following instructions:

INC word ptr [DI] (8088) Add [001], AX (8086)

- 17. Which instruction does unconditionally transfer the control of the execution?
- 18. How does a PUSH instruction affect the Stack Pointer?
- 19. During a comparison operation, where is the result of subtraction stored?
- 20. What is an example of an external interrupt?
- 21. What type of interrupt has the highest priority among all external interrupts?